CLAIMS IN ACCORDANCE WITH THE SELECTED RESTRICTION:

What is claimed is:

- 1 (original). A system for wiping a windshield of a vehicle in a rectangular field, comprising:
 - a) a wiper arm assembly;
- b) a wiper blade assembly operationally attached to said wiper arm assembly; and
- c) means for rotating and translating said wiper arm assembly to cause said wiper blade assembly to track in a linear path across said windshield.
- 2 (withdrawn). A system in accordance with Claim 1 wherein said wiper arm assembly includes a wiper arm having an inner end and an outer end, and wherein said means for rotating and translating comprises:
- a) a track mountable to said vehicle along a direction orthogonal to said linear path;
- b) a wiper motor having a stator and a rotor, said stator being slidable in said first track, and said rotor being supportive of said wiper arm at said inner end for oscillating motion of said wiper arm assembly about said inner end; and
- e) means for causing said wiper motor to move along said track during said oscillating motion to cause said outer end of said wiper arm assembly to follow said linear path.

- 3 (withdrawn). A system in accordance with Claim 2 wherein said means for causing said wiper motor to move along said track is selected from the group consisting of:
- a) a link connected to said wiper arm and pivotable about a fixed pivot point between said track and said linear path; and
- b) a linear actuator disposed adjacent said track and connected to said motor for displacing said motor along said track in coordination with said oscillating motion of said wiper arm assembly.
- 4 (withdrawn). A system in accordance with Claim 2 further comprising:
- a) a first tab extending from said motor stator coincident with said wiper arm inner end;
- b) a second tab extending from said outer end of said wiper arm; and
- c) an attitude arm extending between said first and second tabs to form a parallelogram arrangement therewith, said wiper blade assembly being fixed to said second tab.
- 5 (withdrawn). A system in accordance with Claim 1 wherein said means for rotating and translating comprises:
- a) a first track disposed adjacent an edge of said windshield;
 - b) a second track generally orthogonal to said first track;
- c) a car disposed for translation along said first track and supportive of said wiper blade assembly extending over said windshield; and
- d) a wiper motor having a stator and a rotor, said stator being slidable in said second track, and said rotor being

supportive of said wiper arm at said inner end for oscillating motion of said wiper arm assembly about said inner end, said outer end of said wiper arm being attached to said car.

- 6 (withdrawn). A system in accordance with Claim 5 further comprising an attitude arm extending between said motor stator and said car to form a parallelogram arrangement.
- 7 (withdrawn). A system in accordance with Claim 1 wherein said means for rotating and translating comprises:
 - a) a mounting plate;
- b) a first wiper arm guide disposed for pivoting about a wiper arm pivot point on said mounting plate and for slidably receiving said wiper arm to pass therethrough;
- c) second wiper arm guide means attached to an inner end of said wiper arm;
- d) third wiper arm guide means formed in said mounting plate for receiving said second wiper arm guide means, said first and second wiper arm guide means being cooperative to slide said wiper arm through said first wiper arm guide and simultaneously to pivot said wiper arm and said first wiper arm guide about said wiper arm pivot point such that an outer end of said wiper arm is drawn in a linear path across said windshield; and
- e) means for translating said second wiper arm guide means along said third wiper arm guide means.

- $\ensuremath{8}$ (withdrawn). A system in accordance with Claim 7 wherein
- a) said second wiper arm guide means includes a post and roller;
- b) said third wiper arm guide means includes a slot formed in said mounting plate; and
- c) said means for translating includes a motor having a rotor supportive of an actuation arm operatively connected to said second wiper arm guide means.
- 9 (withdrawn). A system in accordance with Claim 8 further comprising:
 - a) an attitude arm having inner and outer ends;
- b) a first attitude arm guide disposed for pivoting about an attitude arm pivot point on said mounting plate and for slidably receiving said attitude arm to pass therethrough;
- c) second attitude arm guide means attached to an inner end of said attitude arm;
- d) third attitude arm guide means formed in said mounting plate for receiving said second attitude arm guide means, said first and second attitude arm guide means being cooperative to slide said attitude arm through said first attitude arm guide and simultaneously to pivot said attitude arm and said first attitude arm guide about said attitude arm pivot point;
- e) a first tab extending between said inner end of said wiper arm and said inner end of said attitude arm;
- f) a second tab extending between said outer end of said wiper arm and said outer end of said attitude arm, defining a parallelogram arrangement thereamong; and

- e) means for pivotably connecting said first tab to said means for translating.
- 10 (withdrawn). A system in accordance with Claim 9 wherein:
- a) said second attitude arm guide means includes a post and roller; and
- b) said third attitude arm guide means includes a slot formed in said mounting plate.
- 11 (original). A system in accordance with Claim 1 wherein said means for rotating and translating comprises at least one fixed gear and at least one rotatable gear.
- 12 (original). A system in accordance with Claim 1 wherein said means for rotating and translating comprises:
 - a) a mounting plate;
- b) a gear train including a first gear disposable adjacent said windshield, a second gear meshed with said first gear, and a third gear meshed with said second gear, said first, second, and third gears having first, second, and third axes, respectively, included in a straight line including a virtual pivot point, said first gear being non-rotationally attached to said mounting plate;
 - c) a first non-linear track formed in said mounting plate;
- d) a motor having a stator and a rotor, said stator being slidable in said first track, and said rotor being supportive of said second gear; and
- e) a wiper arm fixedly attached at an inner end thereof to said third gear,

wherein rotation of said second gear by said motor causes an outer end of said wiper arm to be drawn in a linear path across said windshield.

- 13 (original). A system in accordance with Claim 12 further comprising a second track formed in said mounting plate for guiding said third gear in motion about said virtual pivot point.
- 14 (original). A system in accordance with Claim 13 further comprising:
 - a) an attitude arm having inner and outer ends;
- b) a first tab extending between said inner end of said wiper arm and said inner end of said attitude arm; and
- c) a second tab extending between said outer end of said wiper arm and an outer end of said attitude arm, defining a parallelogram arrangement thereamong, said wiper blade assembly being fixedly attached to said second tab.
- 15 (original). A system in accordance with Claim. 12 wherein the angle subtended by said first gear is one-half the angle subtended by said third gear.
- 16 (original). A system in accordance with Claim 12 wherein the radius of said third gear is one-half the radius of said first gear.
- 17 (original). A system in accordance with Claim 12 wherein said system has a nominal sweep angle between sweep extremes of about 120 degrees.

- 18 (original). A system in accordance with Claim 13 wherein said first and second tracks are circular and concentric upon said virtual pivot point.
- 19 (withdrawn). A system in accordance with Claim 13 wherein at least one of said first and third gears is a non-circular gear defining a cam gear and wherein said first and second tracks are non-circular.
- 20 (withdrawn). A vehicle comprising a windshield and a windshield wiping system, said system including
 - a wiper arm assembly,
- a wiper blade assembly operationally attached to said wiper arm assembly, and

means for rotating and translating said wiper arm assembly to cause said wiper blade assembly to track in a linear path across said windshield.

- 21 (withdrawn). A gear train for rotating and translating a wiper arm for a windshield wiper to create a wiped field on a windshield, comprising:
 - a) a first gear;
 - b) a second gear meshed with said first gear; and
- c) a third gear supportive of said wiper arm and meshed with said second gear, said first, second, and third gears having first, second, and third parallel axes, respectively, wherein said first gear is non-rotational.

- 22 (withdrawn). A gear train in accordance with Claim 21 further comprising means for causing said second and third gears to rotate about said first gear.
- 23 (withdrawn). A gear train in accordance with Claim 22 wherein said means for causing is attached to said second gear.
- 24 (withdrawn). A gear train in accordance with Claim 21 wherein said first, second, and third parallel axes are included in a plane that also includes a virtual pivot axis coincident with said first gear axis.
- 25 (withdrawn). A gear train in accordance with Claim 21 further comprising:
 - a) a non-linear track; and
- b) a motor having a stator and a rotor, said stator being slidable in said track, and said rotor being supportive of said second gear,

wherein rotation of said second gear by said motor causes said stator to be drawn along said track and causes an outer portion of said wiper arm to be drawn in a path across said windshield to create said wiped field.

26 (withdrawn). A gear train in accordance with Claim 25 wherein said path is linear and said wiped field is rectangular.

- 27 (withdrawn). A gear train in accordance with Claim 25 wherein said path is non-linear and said wiped field is rectarcuate.
- 28 (withdrawn). A gear train in accordance with Claim 21 wherein the central angle subtended by said first gear is less than the central angle subtended by said third gear.
- 29 (withdrawn). A gear train in accordance with Claim 28 wherein the central angle subtended by said first gear is one-half the central angle subtended by said third gear.
- 30 (withdrawn). A gear train in accordance with Claim 21 wherein the radius of said third gear is one-half the radius of said first gear.
- 31 (withdrawn). A gear train in accordance with Claim 25 wherein at least one of said first and third gears is a non-circular gear defining a cam gear and wherein said track is non-circular.